EG21 and EGS21 Series Electric Gage and SWICHGAGE® Installation

EG21-96048N
Revised 05-05
Section 70
(00-02-0251)

For Pressure, Temperature, Fuel Level, Voltmeter and Ammeter

Patents 5121109, 4975687 and 5608386

MURPHY

⚠ CAUTION ⚠

IMPORTANT NOTICE FOR ALL EG21 ELECTRIC GAGES AND EGS21 ELECTRIC SWICHGAGE®S FOR 24VDC AND 32VDC APPLICATIONS

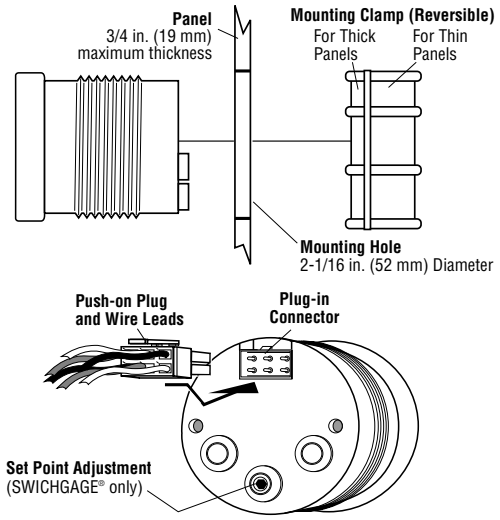
A change in the dial illumination circuit has made it necessary to change the external wiring harness. If you use the incorrect wiring harness, irreparable damage will occur to the gage mechanism.

The table below lists correct wire harness assemblies for units by manufacturing date. For date code R1 (January 1996) or earlier (Q12, Q11, etc.) the wire harness can be identified by P/N and by BLACK shrink tubing on the YELLOW wire. For date code R2 (February 1996) and later (R3, R4, etc.) the wire harness can be identified by P/N and by RED shrink tubing on the YELLOW wire.

Date Code R1 or Earlier	Date Code R2 or Later
05004546	05006166
05004547	05006167
05004548	05006168
05004549	05006169
05004550	05006170
05004551	05006171
05004552	05006172

If dial illumination is NOT required, either wire harness can be used on any date code, if the YELLOW wire is **NOT** connected.

Gage Installation

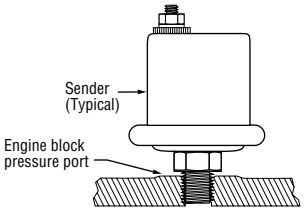


Sender Installation

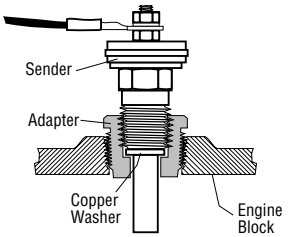
CAUTION: Do not use sender body to tighten.

If sealant tape or pipe dope is used on the pressure sender, be sure that the tape or dope does not plug the sender's orifice.

Pressure Sender



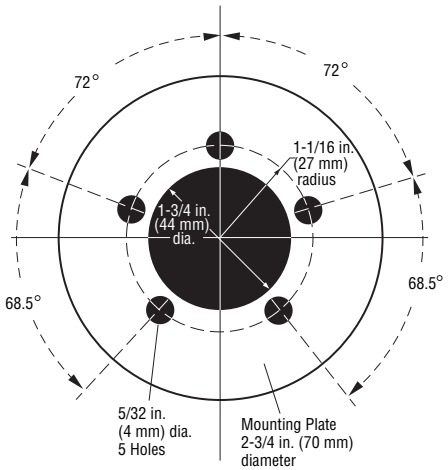
Temperature Sender



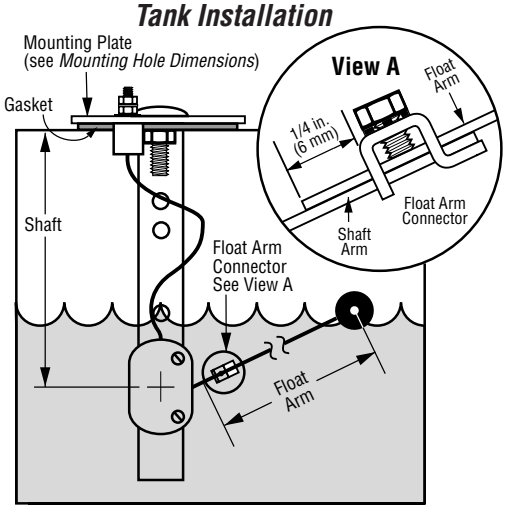
Fuel Level Sender

CAUTION: Extreme caution must be used in handling or working on or around the fuel tank. It must be worked on only in a **WELL VENTILATED** area. Keep all flame and hot materials away from it. Do not smoke while working on or around the tank. Avoid sliding or dragging the tank, or other actions which may cause a spark.

Mounting Hole Dimensions



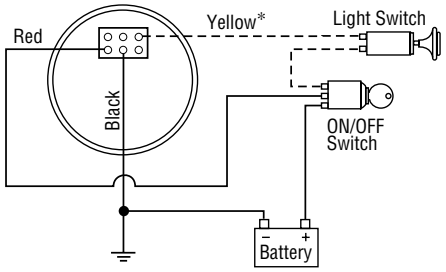
Tank Installation



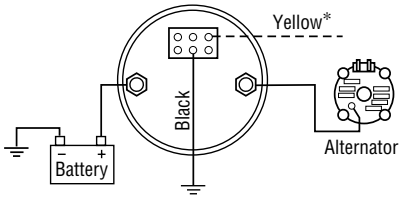
Basic Wiring

WARNING: DISCONNECT BATTERY NEGATIVE CABLE BEFORE WIRING OR SERVICE.

Pressure, Temperature, Fuel Level and Voltmeter Gage



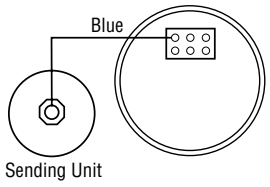
Ammeter Gage



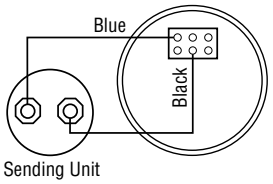
*Yellow wire is optional for gage illumination and does not need to be connected for gage to operate.

Sender Wiring

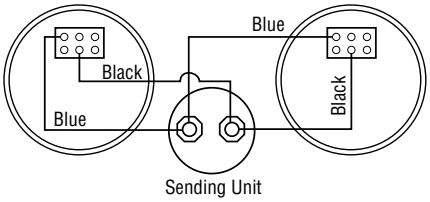
Grounded Sender



Ungrounded Sender



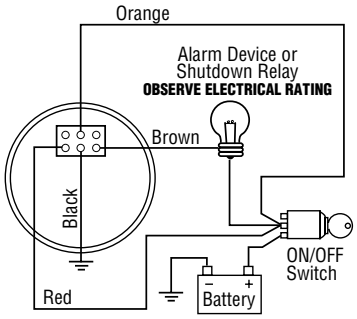
Dual Gages with Dual Gage Sender



SWICHGAGE® Wiring

WARNING: DISCONNECT BATTERY NEGATIVE CABLE BEFORE WIRING OR SERVICE.

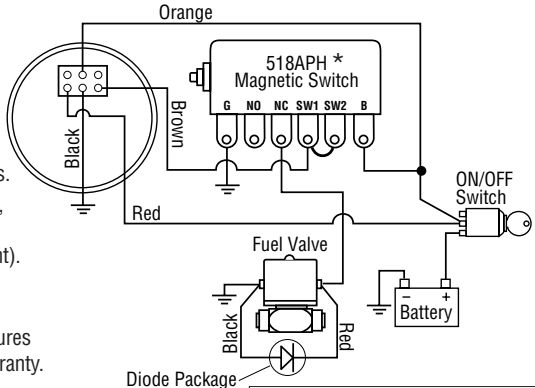
CAUTION: Connecting full Battery potential to the brown wire can damage the SWICHGAGE®. Shutdown circuit is rated for 300 mA continuous, 900 mA inrush. Circuit grounds out at set point.



CAUTION: Devices containing solid state components can be damaged or caused to malfunction when used in systems which incorporate inductive loads (e.g. relays, solenoids, etc.) that can generate voltage spikes.

To reduce the potential for this type of damage, install a flyback or clamping diode across all inductive loads (see wiring diagram shown right).

Use Murphy diode package 65-00-0343 or equivalent. A typical diode is 1N4005 which is readily available from commercial sources. Failures of this type are not covered by our Limited Warranty.



*Model 518APH is the only Murphy recommended Tattletale® for use with the EGS21 series Electric SWICHGAGE®.

Warranty

A limited warranty on materials and workmanship is given with this FW Murphy product.
A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm

MURPHY

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